

V-SHAPED DISC SCREEN AND METHOD OF CLASSIFYING MIXED RECYCLABLE MATERIALS INTO FOUR STREAMS

ABSTRACT OF THE DISCLOSURE

[01] A disc screen apparatus has a V-shaped configuration with a lowermost region that provides a laterally inclined trough that receives the mixed recyclable materials. Broken glass falls downwardly between the discs of the lowermost region. Plastic milk bottles and soda pop containers tumble down the trough and eventually fall off its lower end. Newspaper is conveyed upwardly over the terminal upper ends of a pair of vertically inclined regions of the disc screen apparatus. The frame of the disc screen apparatus can incorporate ducting for connecting a source of pressurized air to one or more air manifolds the blow air toward the vertically inclined regions for helping the discs in these regions convey newspaper up the inclined regions and over their terminal upper ends. The angle of inclination of the vertically inclined regions may be adjustable to optimize the efficiency of classification.